

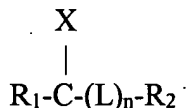
B² cont

which react with primary amines (N-term lysine in the presence of a nucleophile (i.e. CN⁻) to form fluorescent isoindoles, dansyl dyes, fluorescamine and dabcyi chloride, 5-((((2-iodoacetyl)amino)ethyl)amino)naphthalene-1-sulfonic acid, long lifetime dyes comprised of metal-ligand complexes (MLC) which consist of a metal center (Ru, Re, Os) and organic or inorganic ligands complexed to the metal such as such as [Ru(bpy)₃]²⁺ and [Ru(bpy)₂(dcbpy)], and the like and derivatives thereof. The synthesis and structures of several dyes which may be used are described in U.S. Patents 5,248,782; 5,274,113; and, 5,187,288, the contents of which are incorporated herein by reference. Other light-emitting moieties used in labeling or other applications may be attached to the peptide. For example, suitable light-emitting moieties are described in "*Handbook of Fluorescent Probes and Research Chemicals – 5th Edition*" by Richard P. Haugland 1994; and "Design and Application of Indicator Dyes", *Noninvasive Techniques in Cell Biology*: 1-20 by Richard P. Haugland et al., Wiley-Liss Inc. (1990), the contents of each of which is incorporated herein by reference.

In the claims:

Please amend claims 28, 35 and 42 as follows:

28. (Once amended) A compound of the formula:



wherein R₁ is a light-emitting moiety and R₂ is a bombesin-like peptide, fragment, derivative or analog thereof, wherein R₂ is comprised of Val-Pro-Leu-Pro-Ala-Gly-Gly-Gly-

Thr-Val-Leu-Thr-Lys-Met-Tyr-Pro-Arg-Gly-Asn-His-Trp-Ala-Val-Gly-His-Leu-Met (SEQ ID NO:2), and L is a linker moiety,

wherein n is 1 or 0, and (C-X) is selected from the group consisting of C=O, C=S, CH(OH), C=C=O, C=NH, CH₂, CH(OR) DH(NR), CH(R), CR₃R₄, and C(OR₃)OR₄ where R, R₃, and R₄ are alkyl moieties or substituted alkyl moieties, and

wherein (L)_n—R₂ is linked to (C-X) at L or at an amino acid position selected such that the compound exhibits substantial biological activity in the presence of a receptor having affinity for bombesin-like peptides, wherein said compound exhibits substantial biological activity in the presence of a receptor having affinity for bombesin-like peptides.

35. (Once amended) The compound of claim 1, wherein said light-emitting moiety is selected from the group consisting of 4,4-difluoro-4-bora-3a,4a-diaza-s-indacene, fluorescein, FITC, Texas red, phycoerythrin, rhodamine, carboxytetra-methylrhodamine, indopyras dyes, Cascade blue, coumarins, NBD, Lucifer Yellow, propidium iodide, dinitrophenol (DNP), lanthanide cryptates, lanthanide chelates, non-fluorescent dialdehydes which react with primary amines to form fluorescent isoindoles, dansyl, fluorescamine and dabcyI chloride, 5-(((2-iodoacetyl) amino)ethyl)amino)naphthalene-1-sulfonic acid, long lifetime dyes comprised of metal-ligand complexes (MLC) and derivatives thereof.

42. (Once amended) A method for imaging cell receptor sites comprising contacting candidate cell receptor sites with a compound of claim 28, and detecting said bound compound as an indication of said cell receptor sites.

/

Please add claims 45-50 as follows:

45. The compound of claim 28, wherein $n=1$ and R_2 is attached to R_1 via a linker moiety.

46. The compound of claim 28 wherein the linker moiety is selected from the group consisting of include-g-aminobutyric acid, glycine, beta-alanine, aminopentanoic acid, aminohexanoic acid, aminohepanoic acid, aminooctanoic acid, aminononaoic acid, aminodecanoic acid, aminoundecanoic acid, and aminododecanoic acid.

47. The compound of claim 28 wherein R_2 is comprised of Gly-Asn-Leu-Trp-Ala-Thr-Gly-His-Phe-Met (SEQ ID NO:3).

B6
48. The compound of claim 28 wherein R_2 is comprised of Gly-Asn-His-Trp-Ala-Val-Gly-His-Leu-Met (SEQ ID NO:4).

49. The compound of claim 28 wherein R_2 is comprised of Dphe-Gly-Trp-Ala-Val-betaAla-His-Phe-Nle (SEQ ID NO:5).

50. The compound of claim 28, wherein R_2 is comprised of (SEQ ID NO:5) and is attached to the linker γ -aminobutyric acid.

/ /

Please cancel claims 2 and 4-9.